



Maryland HIV/AIDS Quarterly Update Fourth Quarter 2020

Data reported through December 31, 2020
Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
Maryland Department of Health
https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx
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Section I - Technical Notes

HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with HIV be reported by name to the Maryland Department of Health. As per the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02, physicians are required to report patients in their care with diagnoses of HIV or AIDS and infants born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report all HIV diagnostic and HIV-related monitoring test results, including HIV negative test results.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people that have been diagnosed with HIV by a health care provider, were residents of Maryland at the time of diagnosis or are current residents of Maryland as of June 30, 2020, are receiving medical care (often only at facilities in Maryland), and only includes information that has been reported to the health department.

Data presented were reported to the Maryland Department of Health through December 31, 2020. Reported new diagnoses and estimates of people living with diagnosed HIV are as of June 30, 2020.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to reporting delays, estimates by exposure category and mortality are preliminary.

Please note that data reported in the quarterly reports may not match data reported in the annual epidemiological profiles due to differences in reporting periods.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

New HIV Infections

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection, among people living with HIV, is 13.8 percent in the United States. Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 10.8 percent in 2018.

AIDS Diagnoses

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent.

Mortality

People are assumed to be alive unless reported as deceased to the Maryland Department of Health. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Engagement in HIV Care

Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. The presence of these lab tests is used as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Viral Suppression

Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, is known as viral suppression. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2014–2018. HIV Surveillance Supplemental Report 2020;25(No. 1). http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html. Published May 2020. Accessed May 2020.

Geographic Distribution

Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Estimates describing the number of people living with diagnosed HIV use current residence. Current residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care since prior to 2009. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

In the quarterly reports, not all data has been geocoded and therefore is preliminary. Geocoding is the process of assigning geographic identifiers to map features and data records. Addresses are standard data elements required by law and submitted as part of reporting requirements; however, the information may be incomplete which then requires a geocoding process to improve the quality of data. This process is fully completed on the end-of-the-year data set.

Residents of Correctional Facilities

People living with diagnosed HIV who were reported to be residing in a state or federal prison will be described for Maryland only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers.

Sources of Data

Information on HIV and AIDS diagnoses, including residence, vital status, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), as of December 31, 2020.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Glossary of Terms

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of June 30, 2020 and not reported to have died as of December 31, 2020.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of December 31, 2020.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Population: Population estimate for July 1, 2019.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2019.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of June 30, 2020 not reported to have died as of December 31, 2020.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

Maryland Department of Health Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

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Section II - Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

<u>Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged</u>
<u>13+ During July 1, 2019 through June 30, 2020, by Jurisdiction of Residence at Diagnosis, Reported through December 31, 2020</u>

Jurisdiction of Residence at	Population		HIV Diagnoses		Reported AIDS Diagnoses Among People Aged 13+			
Diagnosis	Age 13+	No.	% of Total	Rate	No.	% of Total	Rate	
Allegany	61,764	3	0.4%	4.9	2	0.5%	3.2	
Anne Arundel	485,680	38	5.0%	7.8	15	3.5%	3.1	
Baltimore City	504,269	179	23.5%	35.5	123	28.5%	24.4	
Baltimore	698,716	99	13.0%	14.2	49	11.3%	7.0	
Calvert	77,905	4	0.5%	5.1	3	0.7%	3.9	
Caroline	27,787	0	0.0%	0.0	0	0.0%	0.0	
Carroll	143,123	1	0.1%	0.7	4	0.9%	2.8	
Cecil	86,690	5	0.7%	5.8	0	0.0%	0.0	
Charles	136,026	23	3.0%	16.9	7	1.6%	5.1	
Dorchester	27,165	2	0.3%	7.4	0	0.0%	0.0	
Frederick	217,096	16	2.1%	7.4	5	1.2%	2.3	
Garrett	25,324	0	0.0%	0.0	0	0.0%	0.0	
Harford	215,720	10	1.3%	4.6	10	2.3%	4.6	
Howard	270,649	21	2.8%	7.8	12	2.8%	4.4	
Kent	17,295	3	0.4%	17.3	2	0.5%	11.6	
Montgomery	877,406	104	13.6%	11.9	64	14.8%	7.3	
Prince George's	761,035	234	30.7%	30.7	117	27.1%	15.4	
Queen Anne's	42,995	1	0.1%	2.3	1	0.2%	2.3	
Saint Mary's	94,126	1	0.1%	1.1	1	0.2%	1.1	
Somerset	22,450	0	0.0%	0.0	0	0.0%	0.0	
Talbot	32,407	1	0.1%	3.1	0	0.0%	0.0	
Washington	127,813	6	0.8%	4.7	8	1.9%	6.3	
Wicomico	87,334	12	1.6%	13.7	9	2.1%	10.3	
Worcester	46,024	0	0.0%	0.0	0	0.0%	0.0	
Corrections		0	0.0%		0	0.0%		
Total	5,086,800	763	100.0%	15.4	432	100.0%	9.0	

<u>Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During July 1, 2019</u> <u>through June 30, 2020, Linked to Care, Late Diagnosis, First CD4 Test Result, and Mean</u> <u>Years from HIV Diagnosis by Jurisdiction of Residence at Diagnosis, Reported through</u> <u>December 31, 2020</u>

Touris disking of		Reported	HIV Diagnoses	Among People Ag	ged 13+		
Jurisdiction of Residence at HIV Diagnosis		Linked to	Care	% Late HIV	First CD4 Test Result		
	No.	% 1 mo.	% 3 mo.	Diagnoses	% with Test	Median Count	
Allegany	3	***	***	***	***	***	
Anne Arundel	38	83.0%	89.4%	27.7%	89.4%	371	
Baltimore City	179	85.0%	87.5%	24.5%	85.0%	378	
Baltimore	99	90.8%	95.0%	21.7%	95.0%	427	
Calvert	4	***	***	***	***	***	
Caroline	0						
Carroll	1	***	***	***	***	***	
Cecil	5	71.4%	71.4%	0.0%	71.4%	525	
Charles	23	82.9%	91.4%	25.7%	97.1%	330	
Dorchester	2	***	***	***	***	***	
Frederick	16	58.3%	75.0%	***	66.7%	352	
Garrett	0						
Harford	10	80.0%	90.0%	***	90.0%	330	
Howard	21	91.3%	95.7%	26.1%	95.7%	304	
Kent	3	***	***	***	***	***	
Montgomery	104	89.0%	93.4%	33.1%	94.1%	290	
Prince George's	234	88.7%	91.9%	23.2%	91.5%	390	
Queen Anne's	1	***	***	***	***	***	
Saint Mary's	1	***	***	***	***	***	
Somerset	0						
Talbot	1	***	***	***	***	***	
Washington	6	***	***	***	***	***	
Wicomico	12	90.0%	90.0%	30.0%	90.0%	445	
Worcester	0						
Corrections	0						
Total	763	87.2%	91.2%	25.0%	90.9%	377	

^{***} Data withheld due to low population counts and/or small numbers

<u>Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on June 30, 2020, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through December 31, 2020</u>

				Total Peo	ple Aged 1	l3+ Living	with Dia	gnosed HI	V	
Jurisdiction of Residence	Population Age 13+	Residence at Diagnosis			Diagnosis Current Residence					% Change
residence 2	Age 15+	No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	61,764	88	0.3%	142.5	702	100	0.3%	161.9	618	13.6%
Anne Arundel	485,680	1,325	4.0%	272.8	367	1,358	4.3%	279.6	358	2.5%
Baltimore City	504,269	11,957	36.3%	2,371.2	42	10,697	34.0%	2,121.3	47	-10.5%
Baltimore	698,716	3,342	10.1%	478.3	209	3,528	11.2%	504.9	198	5.6%
Calvert	77,905	115	0.3%	147.6	677	130	0.4%	166.9	599	13.0%
Caroline	27,787	68	0.2%	244.7	409	65	0.2%	233.9	427	-4.4%
Carroll	143,123	151	0.5%	105.5	948	163	0.5%	113.9	878	7.9%
Cecil	86,690	124	0.4%	143.0	699	151	0.5%	174.2	574	21.8%
Charles	136,026	503	1.5%	369.8	270	637	2.0%	468.3	214	26.6%
Dorchester	27,165	126	0.4%	463.8	216	146	0.5%	537.5	186	15.9%
Frederick	217,096	373	1.1%	171.8	582	469	1.5%	216.0	463	25.7%
Garrett	25,324	9	0.0%	35.5	2,814	17	0.1%	67.1	1,490	88.9%
Harford	215,720	466	1.4%	216.0	463	518	1.6%	240.1	416	11.2%
Howard	270,649	615	1.9%	227.2	440	697	2.2%	257.5	388	13.3%
Kent	17,295	41	0.1%	237.1	422	51	0.2%	294.9	339	24.4%
Montgomery	877,406	4,146	12.6%	472.5	212	3,587	11.4%	408.8	245	-13.5%
Prince George's	761,035	7,823	23.7%	1,027.9	97	7,887	25.0%	1,036.4	96	0.8%
Queen Anne's	42,995	54	0.2%	125.6	796	56	0.2%	130.2	768	3.7%
Saint Mary's	94,126	142	0.4%	150.9	663	154	0.5%	163.6	611	8.5%
Somerset	22,450	72	0.2%	320.7	312	84	0.3%	374.2	267	16.7%
Talbot	32,407	67	0.2%	206.7	484	75	0.2%	231.4	432	11.9%
Washington	127,813	314	1.0%	245.7	407	352	1.1%	275.4	363	12.1%
Wicomico	87,334	252	0.8%	288.5	347	265	0.8%	303.4	330	5.2%
Worcester	46,024	76	0.2%	165.1	606	63	0.2%	136.9	731	-17.1%
Corrections		695	2.1%			240	0.8%			
Total	5,086,800	32,944	100.0%	647.6	154	31,490	100.0%	619.1	162	-4.4%

<u>Table 4 – CD4 Test Results During July 1, 2019 through June 30, 2020 for People Aged 13+ Living with Diagnosed HIV, Alive on June 30, 2020, by Jurisdiction of Current Residence, Reported through December 31, 2020</u>

7idiki		•	Total People	Aged 13+ Liv	ing with Dia	gnosed HIV						
Jurisdiction of — Current Residence		Recent CD4 Test Result										
	No.	No. with Test	% with Test	Median Count	<200	200-349	350-499	500+				
Allegany	100	93	93.0%	660	5.4%	7.5%	20.4%	66.7%				
Anne Arundel	1,358	999	73.6%	635	7.1%	11.2%	15.3%	66.4%				
Baltimore City	10,697	7,703	72.0%	595	9.3%	12.9%	17.0%	60.8%				
Baltimore	3,528	2,476	70.2%	636	6.0%	11.5%	15.3%	67.2%				
Calvert	130	102	78.5%	670	9.8%	5.9%	15.7%	68.6%				
Caroline	65	54	83.1%	689	0.0%	7.4%	14.8%	77.8%				
Carroll	163	126	77.3%	657	7.1%	11.9%	17.5%	63.5%				
Cecil	151	101	66.9%	598	6.9%	7.9%	18.8%	66.3%				
Charles	637	483	75.8%	659	7.9%	10.8%	15.1%	66.3%				
Dorchester	146	113	77.4%	616	7.1%	10.6%	15.0%	67.3%				
Frederick	469	354	75.5%	618	4.5%	8.5%	15.0%	72.0%				
Garrett	17	12	70.6%	766	8.3%	0.0%	25.0%	66.7%				
Harford	518	368	71.0%	634	7.9%	12.5%	13.9%	65.8%				
Howard	697	529	75.9%	650	7.6%	8.7%	12.5%	71.3%				
Kent	51	42	82.4%	682	4.8%	11.9%	11.9%	71.4%				
Montgomery	3,587	2,536	70.7%	603	6.2%	12.0%	17.2%	64.6%				
Prince George's	7,887	5,963	75.6%	620	6.8%	11.8%	15.9%	65.6%				
Queen Anne's	56	41	73.2%	715	12.2%	12.2%	9.8%	65.9%				
Saint Mary's	154	119	77.3%	603	9.2%	10.9%	17.6%	62.2%				
Somerset	84	70	83.3%	568	4.3%	12.9%	17.1%	65.7%				
Talbot	75	63	84.0%	499	11.1%	19.0%	22.2%	47.6%				
Washington	352	271	77.0%	687	7.4%	8.9%	15.5%	68.3%				
Wicomico	265	206	77.7%	575	8.3%	16.5%	16.0%	59.2%				
Worcester	63	52	82.5%	675	7.7%	1.9%	25.0%	65.4%				
Corrections	240	198	82.5%	641	3.0%	9.6%	17.7%	69.7%				
Total	31,490	23,074	73.3%	615	7.5%	11.9%	16.3%	64.3%				

<u>Table 5 – Viral Load Test Results During July 1, 2019 through June 30, 2020 for People Aged 13+ Living with Diagnosed HIV, Alive on June 30, 2020, by Jurisdiction of Current Residence, Reported through December 31, 2020</u>

	Total People Aged 13+ Living with Diagnosed HIV									
Jurisdiction of Current		Recent Viral Load Test Result								
Residence	No.	No. with Test	% with Test	% Suppressed	Median Unsuppressed					
Allegany	100	92	92.0%	92.4%	53,800					
Anne Arundel	1,358	1,020	75.1%	91.0%	20,650					
Baltimore City	10,697	8,459	79.1%	87.0%	12,100					
Baltimore	3,528	2,678	75.9%	90.9%	11,100					
Calvert	130	103	79.2%	91.3%	2,990					
Caroline	65	51	78.5%	90.2%	31,600					
Carroll	163	131	80.4%	93.1%	78,900					
Cecil	151	105	69.5%	85.7%	1,450					
Charles	637	483	75.8%	87.2%	13,200					
Dorchester	146	111	76.0%	90.1%	17,860					
Frederick	469	358	76.3%	93.3%	2,815					
Garrett	17	10	58.8%	100.0%						
Harford	518	385	74.3%	89.4%	6,840					
Howard	697	548	78.6%	88.7%	5,775					
Kent	51	44	86.3%	88.6%	4,060					
Montgomery	3,587	2,551	71.1%	92.2%	9,946					
Prince George's	7,887	6,026	76.4%	89.3%	10,365					
Queen Anne's	56	42	75.0%	90.5%	33,795					
Saint Mary's	154	123	79.9%	84.6%	5,050					
Somerset	84	71	84.5%	87.3%	6,860					
Talbot	75	61	81.3%	90.2%	58,920					
Washington	352	269	76.4%	89.6%	3,480					
Wicomico	265	211	79.6%	90.5%	16,195					
Worcester	63	52	82.5%	94.2%	1,780					
Corrections	240	196	81.7%	89.3%	1,040					
Total	31,490	24,180	76.8%	89.1%	11,000					